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PROVISIONAL SPECIFICATION.

Improvements in Apparatus for Warming or Keeping Warm
Children's or Invalids' Food and the like, Applicable also for
Vapourizing Disinfectants.

I, HENRY DUNSFORD, of 42, and 44, Manesty Lane, Liverpool, in the County of Lancaster, Wholesale Druggist, do hereby declare the nature of this invention to be as follows:—

5 This invention has for its object an apparatus for heating or for retaining the heat of children's or invalids' food. It is also applicable for the purpose of disinfecting a sick room, when the disinfectant employed is to be heated and vapourized.

10 In carrying out the invention, I provide a casing, preferably cylindrical, provided at the upper end with wire gauze. A hole or holes is provided in the casing to admit sufficient air for combustion, and also to allow a ray or rays of light to illuminate the apartment. I prefer to employ an ordinary night light, as I find the heat is quite sufficient to retain the heat in food already warmed. A spirit lamp, gas jet, *etcetera* may, however, be employed, if desired.

15 One of the features in the invention is the employment of the wire gauze, which, while allowing heat to pass through it, also retains some of the heat and collects the smoke or soot, which would otherwise collect on the vessel containing food or liquid. The gauze is preferably rather fine, and the hole or holes for admitting air not very large, so that only just sufficient air for the purpose is admitted, and allowed to escape through the gauze, otherwise the night light may burn away too fast. In my
20 model apparatus I have made the diameter of the casing rather more than twice the diameter of the hole.

Dated this 9th day of May 1888.

WM. P. THOMPSON & Co.,
Of 6, Lord Street, Liverpool,
Patent Agents for the Applicant.

COMPLETE SPECIFICATION.

Improvements in Apparatus for Warming or Keeping Warm Children's or Invalids' Food and the like, Applicable also for Vapourizing Disinfectants.

I, HENRY DUNSFORD of 42, and 44, Manesty Lane, Liverpool, in the County of Lancaster, Wholesale Druggist, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention has for its object an apparatus for heating or for retaining the heat 5 of children's or invalids' food. It is also applicable for the purpose of disinfecting a sick room, when the disinfectant employed is to be heated and vapourized.

The drawing is a front elevation partly in section of an apparatus constructed according to this invention, and supporting a pan E which contains the liquid food or 10 other material to be warmed or kept warm. A shallow saucer or tray might be substituted for the pan E in the case of using the apparatus as a vapourizer.

In carrying out the invention, I provide a casing A preferably cylindrical and formed of tin-plate or similar material, and provided at or near the upper end with a diaphragm of wire gauze B, upon which the pan E or other suitable vessel is placed. 15 A hole or holes C are provided in the casing to admit sufficient air for combustion, and also to allow some of the light to illuminate the apartment. I prefer to employ an ordinary night light D, as I find the heat is quite sufficient to retain the heat in food already warmed. A spirit lamp, gas jet, *etcetera*, may, however, be employed, if desired.

One of the features in the invention is the employment of the wire gauze B, 20 which, while allowing heat to pass through it, also retains some of the heat and collects the smoke or soot, which would otherwise collect on the vessel containing food or liquid. The gauze is preferably rather fine, and the hole or holes C for admitting air not very large so that only just sufficient air for the purpose is admitted, and allowed to escape through the gauze, otherwise the night light D 25 may burn away too fast. In my model apparatus I have made the diameter of the casing two or three times larger than the diameter of the hole.

Having now particularly described and ascertained the nature of my said invention, and in what manner the same is to be performed, I declare that what I 30 claim is:—

1. An apparatus for warming or keeping warm children's food or the like consisting essentially of a casing adapted to enclose a night light or similar heating medium, and provided with one or more side openings for the admission of air to said light and the exit of light therefrom, and of a diaphragm of wire gauze secured to the said casing at or near its top and adapted to support the vessel 35 containing the substance to be heated, substantially as described.

Dunsford's Apparatus for Warming or Keeping Warm Children's or Invalids' Food, &c.

2. An apparatus for vapourizing disinfectants in a sick room or the like consisting essentially of a diaphragm of wire gauze placed above a night light or similar heating medium, and in direct contact with the bottom of a suitable evaporating vessel and of a supporting casing for said diaphragm surrounding said light and provided with
5 suitable apertures for the admission of air and exit of light, substantially as described.

3. The heating and vapourizing apparatus constructed as a whole, substantially as described and shown.

Dated this 7th day of February 1889.

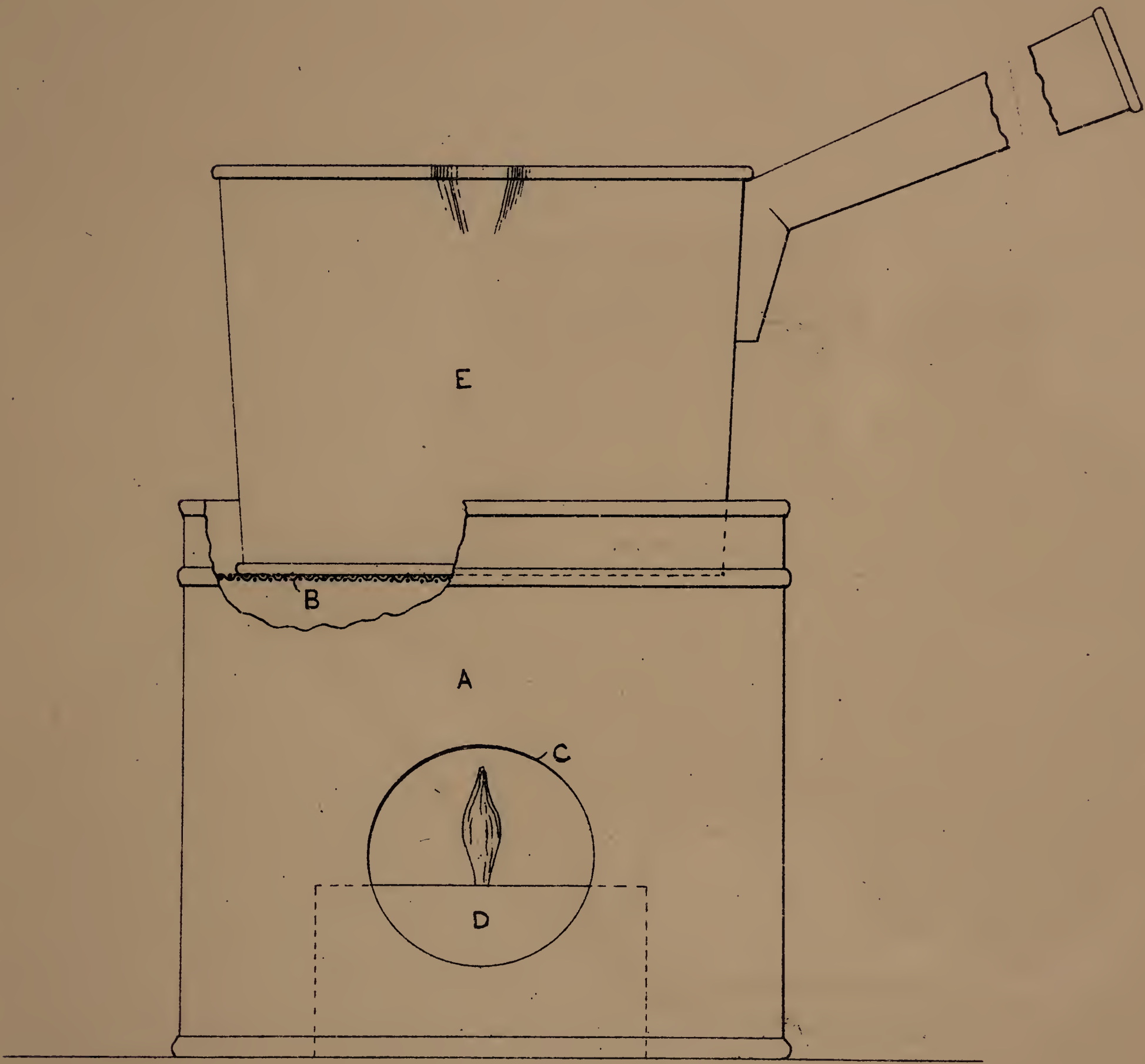
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WM. P. THOMPSON & Co.,
Of 6, Lord Street, Liverpool,
Patent Agents for the Applicant

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[This Drawing is a reproduction of the Original on a reduced scale.]

